



Science Toolkit: Grade 7 Objective 3.C.1.e

Student Handout: Science: Grade 7 Objective 3.C.1.e

Standard 3.0 Life Science

Topic C. Genetics

Indicator 1. Explain the ways that genetic information is passed from parent to offspring in different organisms.

Objective e. Identify evidence to support the idea that there is greater variation among offspring of organisms that reproduce sexually than among those that reproduce asexually.

Selected Response (SR) Item

Question

Roses produced asexually from cuttings are genetically identical to the parent. Roses grown from sexually produced seeds may look different from either parent.

Which statement is best supported by this information?

- A. Sexually produced plants are a new species.
- B. Sexual reproduction produces more variation in plants.
- C. Asexually produced plants are larger than sexually produced plants.
- D. Asexual reproduction helps plants adapt to different environments.

Correct Answer

B. Sexual reproduction produces more variation in plants.

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